	Application No.	Applicant(a)
Notice of Allowability	Application No.	Applicant(s)
	09/768,189	LEVY ET AL.
	Examiner	Art Unit
	Barbara P. Badio, Ph.D.	1616
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included
1. This communication is responsive to		
2. The allowed claim(s) is/are 1,3-5,9,13,14,21,28,33-41,44,45,47-49,51,55 and 58-70.		
3. The drawings filed on are accepted by the Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ENT of this application.	complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1. ☐ Notice of References Cited (PTO-892)	5 Notice of Informal Pa	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☑ Interview Summary (•
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	Paper No./Mail Date	Paper No./Mail Date <u>8/3/04</u> . 7. ⊠ Examiner's Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🔲 Examiner's Statemer	nt of Reasons for Allowance
of Biological Material	9.	
		Barbara P. Badio, Ph.D. Primary Examiner Art Unit: 1616

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ms. Cynthia Soroos on August 3, 2004.

The application has been amended as follows:

Claim 1 has been rewritten as follows:--

1. A method for controlling Cryptosporidium parvum in a mammal, comprising administering to said mammal an effective amount of a tetracycline compound, such that Cryptosporidium parvum is controlled in said mammal, wherein said tetracycline compound is of formula I:

wherein:

X is CHR⁶;

R², R⁴ and R⁴ are each hydrogen, alkyl, alkenyl, alkynyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, arylalkyl, aryl, heterocyclic, or heteroaromatic;

 $R^{2'}$, R^3 , R^{10} , R^{11} and R^{12} are each hydrogen;

R⁵ is hydroxy, hydrogen, thiol, alkanoyl, aroyl, alkaroyl, aryl, heteroaromatic, alkyl, alkenyl, alkynyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, or an arylalkyl;

R⁶, R⁷, and R⁸ are each independently hydrogen, hydroxyl, halogen, thiol, alkyl, alkenyl, alkynyl, aryl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, or an arylalkyl;

R9 is alkyl or alkenyl,

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and pharmaceutically acceptable salts thereof.

Claim 13 has been rewritten as follows:--

13. The method of claim 1, wherein R⁶ is alkyl.

Claim 45 has been rewritten as follows:--

45. A method for treating a *Cryptosporidium parvum* related disorder in a mammal, comprising administering to said mammal an effective amount of a tetracycline compound such that said mammal is treated for said disorder, wherein said tetracycline compound is of formula I:

$$R^{9} \longrightarrow QR^{10} \longrightarrow QR^{11} \longrightarrow QR^{12} \longrightarrow QR^{2}R^{2}$$

$$QR^{10} \longrightarrow QR^{11} \longrightarrow QR^{12} \longrightarrow QR^{12}$$

$$QR^{10} \longrightarrow QR^{11} \longrightarrow QR^{12}$$

$$QR^{11} \longrightarrow QR^{12}$$

$$QR^{12} \longrightarrow QR^{12}$$

$$QR^{12} \longrightarrow QR^{12}$$

$$QR^{12} \longrightarrow QR^{12}$$

$$QR^{13} \longrightarrow QR^{14}$$

$$QR^{14} \longrightarrow QR^{14}$$

$$QR^{15} \longrightarrow QR^{15}$$

$$QR^{15} \longrightarrow QR$$

wherein:

X is CHR⁶;

R², R⁴ and R⁴ are each hydrogen, alkyl, alkenyl, alkynyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, arylalkyl, aryl, heterocyclic, or heteroaromatic;

R2, R3, R10, R11 and R12 are each hydrogen;

R⁵ is hydroxy, hydrogen, thiol, alkanoyl, aroyl, alkaroyl, aryl, heteroaromatic, alkyl, alkenyl, alkynyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, or an arylalkyl;

R⁶, R⁷, and R⁸ are each independently hydrogen, hydroxyl, halogen, thiol, alkyl, alkenyl, alkynyl, aryl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, or an arylalkyl;

R9 is alkyl or alkenyl,

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and pharmaceutically acceptable salts thereof.

Claim 51 has been rewritten as follows:--

51. The method of claim 45, wherein R⁶ is alkyl.

Telephone Inquiry

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Barbara P. Badio, Ph.D. whose telephone number is 571-272-0609. The examiner can normally be reached on M-F from 6:00am-3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary L. Kunz can be reached on 571-272-0887. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Barbara P. Badio, Ph.D.

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August 3, 2004